

PRELIMINARY PROGRAM

Additional 5 minute talks will be selected from the submitted abstracts.

Program updates and more information can be found at: www.glycobiology.org

Wednesday, November 12	<p>9:00 am – 1:00 pm SATELLITE SYMPOSIUM: FACING THE CHALLENGES OF EXPRESSION, CHARACTERIZATION AND ANALYSIS OF GLYCOPROTEINS Organized by Qun Zhou, <i>Genzyme Corp, Cambridge, MA</i> and Samnang Tep, <i>Biogen Idec, Cambridge, MA</i> \$40 registration</p> <p>9:00 am – 5:00 pm SATELLITE MEETING: GLYCANS IN CELL COMMUNICATION Annual meeting of the Consortium for Functional Glycomics Participating Investigators Attendance is open to all interested scientists and is <i>free of charge</i>. Please notify Anna Crie (annacrie@scripps.edu) before October 10</p> <p>7:00 – 7:10 pm CONFERENCE OPENING Opening Remarks: Mark Lehrman, <i>President, Society for Glycobiology</i></p> <p>7:10 – 9:00 pm SESSION I: GLYCOBIOLOGY OF DISEASE/KORNFELD AWARD Chair, Mark Lehrman, <i>UT-Southwestern Medical Center, Dallas, TX</i></p> <ul style="list-style-type: none"> • Protein-Losing Enteropathy, Hudson Freeze, <i>Burnham Institute for Medical Research, La Jolla, CA</i> • Protein O-Mannosylation and its Pathological Role, Tamao Endo, <i>Tokyo Metropolitan Institute of Gerontology, Japan</i> • Laminin Receptor Glycans Attached to alpha-Dystroglycan Function as Tumor Suppressors, Minoru Fukuda, <i>Burnham Institute for Medical Research, La Jolla, CA</i> <p style="text-align: center;">WELCOME RECEPTION</p>
Thursday, November 13	<p>8:30 – 10:00 am SESSION II: EXPLORING THE GLYCOME Chair, Monica Palcic, <i>The Carlsberg Laboratory, Copenhagen, Denmark</i></p> <ul style="list-style-type: none"> • Towards Systems Glycobiology: Glycomic and Glycoproteomic Strategies, Anne Dell, <i>Imperial College, London, UK</i> • Role of "Glycan Cycle" and Disease Glycomics, Naoyuki Taniguchi, <i>Osaka University/RIKEN, Japan</i> • Analyzing the Dynamic Glycome, Lara Mahal, <i>University of Texas at Austin</i> <p>10:30 am – 12:20 pm SESSION III: STEM CELL AND DEVELOPMENTAL GLYCOBIOLOGY Chair, Minoru Fukuda, <i>Burnham Institute for Medical Research, La Jolla, CA</i></p> <ul style="list-style-type: none"> • Glycome Analysis during Differentiation of Embryonic Stem Cells, Kelley Moremen, <i>Complex Carbohydrate Research Center, University of Georgia, Athens, GA</i> • Glycobiology of Neural Stem Cells--Functional Aspects, Robert Yu, <i>Medical College of Georgia, Augusta, GA</i> • The Role of O-Glycosylation in Cell Adhesion during Development, Kelly Ten Hagen, <i>National Institutes of Health, Bethesda, MD</i> • Heparan Sulfate in Branching Morphogenesis, Xin Zhang, <i>Indiana University School of Medicine, Indianapolis, IN</i> <p>2:00 – 4:00 pm POSTERS and EXHIBITS</p> <p>4:00 – 5:50 pm SESSION IV: GLYCOBIOLOGY OF THE NERVOUS SYSTEM Chair, Naoyuki Taniguchi, <i>Osaka University/RIKEN, Japan</i></p> <ul style="list-style-type: none"> • Function of Sialyltransferase in <i>drosophila</i> CNS, Vlad Panin, <i>Texas A&M University, College Station, TX</i> • The Dynamics of polySia Expression in the Developing Mouse Brain, Rita Gerardy-Schahn, <i>Hanover Medical School, Hanover, Germany</i> • Polysialic Acid in the Plasticity of the Developing and Adult Vertebrate Nervous System, Urs Rutishauser, <i>Sloan-Kettering Institute, New York, NY</i> • Lectin-glycan Binding Regulates Myelin-axon Interactions, Ronald Schnaar, <i>Johns Hopkins School of Medicine, Baltimore, MD</i>

Friday, November 14	<p>8:30 – 10:00 am SESSION V: SYNTHESIS AND INTERACTIONS OF GLYCANS Chair, Robert Yu, <i>Medical College of Georgia, Augusta, GA</i></p> <ul style="list-style-type: none"> • Molecular and Genetic Regulation of Mucin-type O-Glycan Biosynthesis and Relationship to Human Diseases, Richard Cummings, <i>Emory University School of Medicine, Atlanta, GA</i> • Structure, Function and Directed Evolution of Blood Group Glycosyltransferases, Monica Palcic, <i>The Carlsberg Laboratory, Copenhagen, Denmark</i> • Novel Glycan-binding Receptors Identified by Genomic Analysis, Kurt Drickamer, <i>Imperial College, London, UK</i> <p>10:30 am – 12:20 pm SESSION VI: GLYCOBIOLOGY OF SIGNALING Chair, Ronald Schnaar, <i>Johns Hopkins School of Medicine, Baltimore, MD</i></p> <ul style="list-style-type: none"> • The Complexities of Fucosylation in <i>drosophila</i>, Michael Tiemeyer, <i>University of Georgia, Athens, GA</i> • Removal of Sialic Acid by Klotho Causes Cell-surface Retention of Ion Channels via Binding to Galectin-1, Chou-Long Huang, <i>University of Texas Southwestern Medical Center at Dallas</i> • O-fucose and O-glucose: Essential Modifications for Notch Function, Robert Haltiwanger, <i>Stony Brook University, Stony Brook, NY</i> • Genetic and Metabolic Regulation of N-glycan GlcNAc Branching and Autoimmunity, Michael Demetriou, <i>University of California at Irvine</i> <p>2:00 – 4:00 pm POSTERS and EXHIBITS</p> <p>4:00 – 4:30 pm BUSINESS MEETING</p> <p>4:45 – 5:45 pm KARL MEYER LECTURE</p> <p>7:00 – 9:30 pm BANQUET. Nominal fee. Extra tickets for guests may be ordered.</p>
Saturday, November 15	<p>8:30 – 10:00 am SESSION VII: GLYCOBIOLOGY OF THE SECRETORY PATHWAY Chair, Robert Haltiwanger, <i>Stony Brook University, Stony Brook, NY</i></p> <ul style="list-style-type: none"> • Glycoprotein Biosynthetic Quality Control, Richard Sifers, <i>Baylor College of Medicine, Houston, TX</i> • The Cytoplasmic PNGase-dependent ERAD Pathway in <i>saccharomyces cerevisiae</i>, Tadashi Suzuki, <i>RIKEN Institute, Osaka, Japan</i> • The role of the GlcCer Transfer Protein FAPP2 at the Golgi Complex, Antonella De Matteis, <i>Consorzio Mario Negri Sud, Santa Maria Imbaro (Chieti) Italy</i> <p>10:30 am – 12:20 pm SESSION VIII: GLYCOENGINEERING Chair, Tamara Doering, <i>Washington University, St. Louis, MO</i></p> <ul style="list-style-type: none"> • "Steering" Regenerative Therapeutics by Ex Vivo Glycan Engineering of HCELL Expression, Robert Sackstein, <i>Harvard Medical School, Boston, MA</i> • Characterization of a Bi-functional Enzyme of <i>Leishmania major</i> Involved in Activation of GDP-D-Arabinopyranose, Sam Turco, <i>University of Kentucky, Lexington, KY</i> • Characterizing and Harnessing Glycosaminoglycan Synthases: Cool & Handy Catalysts for Designer Hyaluronan, Chondroitin, and Heparan Polymers, Paul DeAngelis, <i>Univ. of Oklahoma Health Sciences Center, Oklahoma City, OK</i> • Capturing Glycoprotein Interactions with Photoactivatable Crosslinking Sugars, Jennifer Kohler, <i>University of Texas Southwestern Medical Center at Dallas</i> <p>2:00 – 4:00 pm POSTERS and EXHIBITS</p> <p>4:00 – 5:40 pm SESSION IX: GLYCOBIOLOGY OF PATHOGEN RECOGNITION Chair, Richard Cummings, <i>Emory University School of Medicine, Atlanta, GA</i></p> <ul style="list-style-type: none"> • Lectin-mediated Defense of the Gut Epithelial Surface, Lora Hooper, <i>University of Texas Southwestern Medical Center at Dallas</i> • T Cell Recognition of Glycolipids Bound to CD1 Proteins, D. Branch Moody, <i>Harvard Medical School, Boston, MA</i> • An Adaptive Role of the Ashwell Receptor in Mitigating the Lethal Coagulopathy of Sepsis, Jamey Marth, <i>University of California at San Diego</i> • <i>Cryptococcus neoformans</i>: A Eukaryotic Pathogen with a Polysaccharide Capsule, Tamara Doering, <i>Washington University, St. Louis, MO</i> • Closing Remarks, Mark Lehrman

